Headquarters U.S. Air Force

Integrity - Service - Excellence

Airpower & the Integrated Battlespace: Transforming the Strike Mission



Brig Gen Dan Goodrich HQ USAF/XII

22 October 2002

U.S. AIR FORCE



SECAF and CSAF on Warfighting Integration

DR. JAMES G. ROCHE Secretary of the Air Force



"These changes will best posture the Air Force to enhance our contribution to national security by exploiting the synergies within C4ISR capabilities"

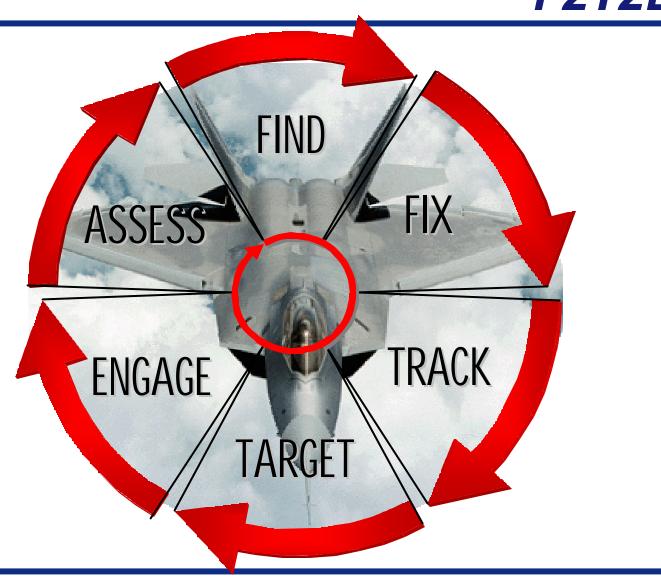
GENERAL JOHN P. JUMPERChief of Staff of the Air Force



"Successful operations depend on modernized air and space capabilities to quickly find, fix, track and attack targets..."



The "Kill Chain" F2T2EA





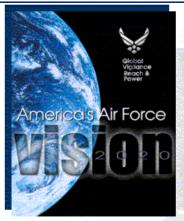


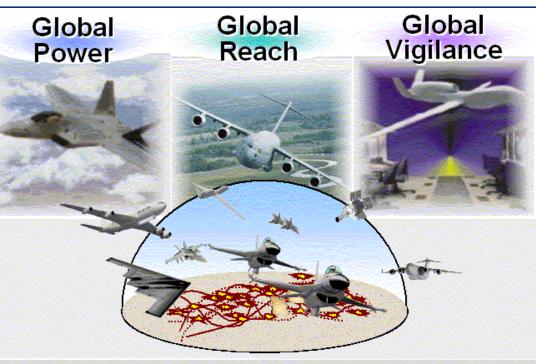
Close the seams in the "Kill Chain" between Find, Fix, Track, Target, Engage, and Assess by integration of manned, unmanned, and space systems

The effect on the 'target' may be kinetic or non-kinetic ... from dropping bombs, to information operations, to humanitarian relief. Achieving the desired effect is the key.



Capabilities-Based Task Force CONOPS





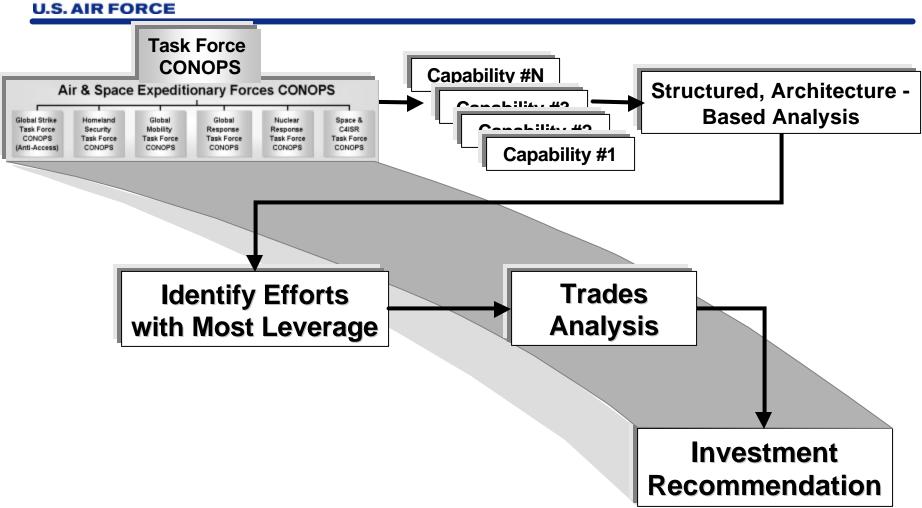
Air & Space Expeditionary Forces CONOPS

Global Strike
Task Force
CONOPS
(Anti-Access)

Homeland Security Task Force CONOPS Global Mobility Task Force CONOPS Global Response Task Force CONOPS Nuclear Response Task Force CONOPS Space & C4ISR
Task Force



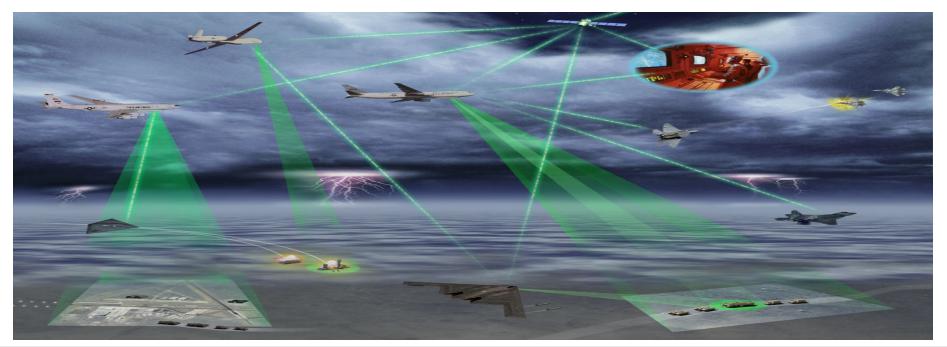
Alignment & Assessment



Investments Linked to Warfighting Effects and Capabilities



Multi-sensor Command and Control Constellation (MC2C)

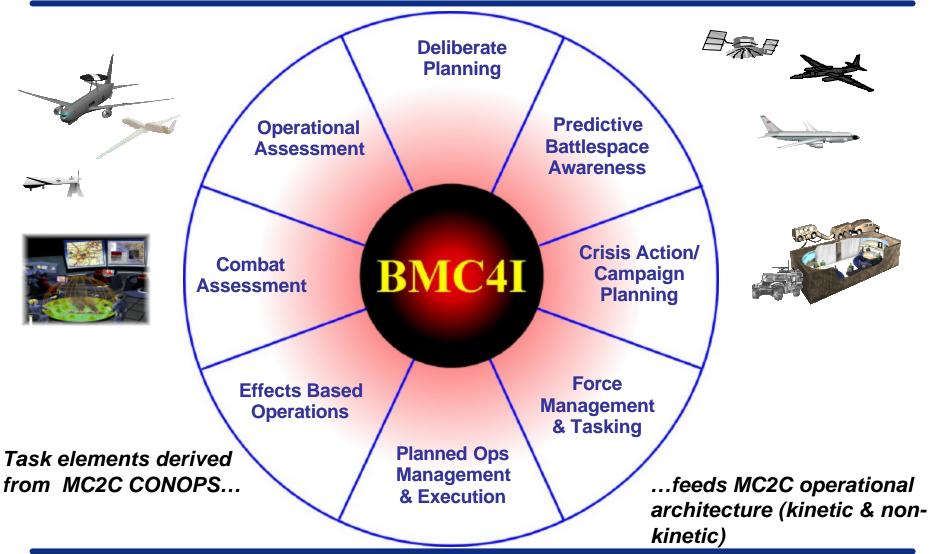


Mission and Requirements

MC2C integrates current and future joint C2, ISR, and IW systems to support more rapid decision analysis, increase battlespace awareness, and shorten decision cycles to improve the effectiveness of all Joint Mission Areas, especially C2, Information Superiority, and Precision Engagement. (MC2 MNS, 10 May 02)



BMC4I...Constellation Enabler

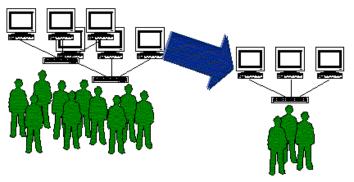




AOC Weapon System



Trained position certified crews



Small forward footprint



Global Partnership



Combat Information Management



Interoperable Operational Picture



Air Force Portal

Technology





Multi-sensor Command and Control Aircraft (MC2A)

Mission and Requirements

MC2A enables Joint Warfighter to conduct Find, Fix, Track, Target, Engage, Assess (F2T2EA) operations within single-digit minutes through a seamless battle management, intelligence, and communications network to detect, classify, characterize and report air and surface targets using airborne integrated ground and air surveillance and targeting sensors.



Performance Parameters

Spiral 1—Multi-Platform Radar Technology Insertion Program (MP-RTIP on 767-400ER) supports:

- GMTI (Ground Moving Target Indicator) capability
- Focused AMTI (Air Moving Target Indicator) for CMD
- Battle Management and Command and Control

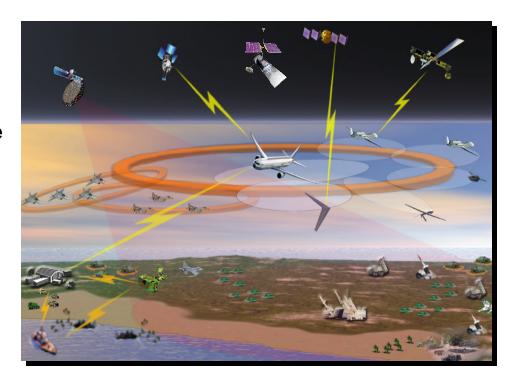
Mr Miller/ AQIZ / 588-6434 / 22 May 02



Space Based Radar Contribution to Integrated ISR

Mission and Requirements

- Day/Night, all-weather, global access; multi-theater support
- On-demand, theater-wide dynamic surface picture
- Force multiplier of ISR and Strike
- Near-continuous, non-provocative IPB
- Reduced terrain masking constraints, operational risk & theater footprint



Products

- GMTI for situational awareness, predictive intelligence, and cueing
- High-Resolution SAR imagery for identification, targeting and intelligence
- High Resolution Terrain Info for planning, rehearsal and strike support

Brings Unique Capabilities to Multi-Sensor C2 Constellation



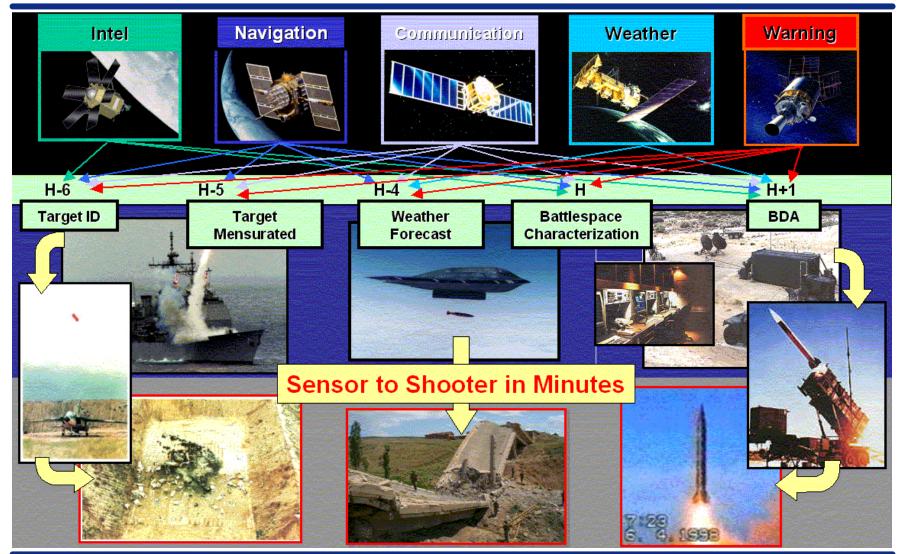
NCCT Program Information

- Approved FY01 Advanced Concept Technology Demonstration
- Creates actionable, Time Sensitive Targeting information from multi-ISR platforms
- Reduces target location error by factor of ten
- Horizontal integration of ISR platforms
- Core technology supporting CSAF Vision



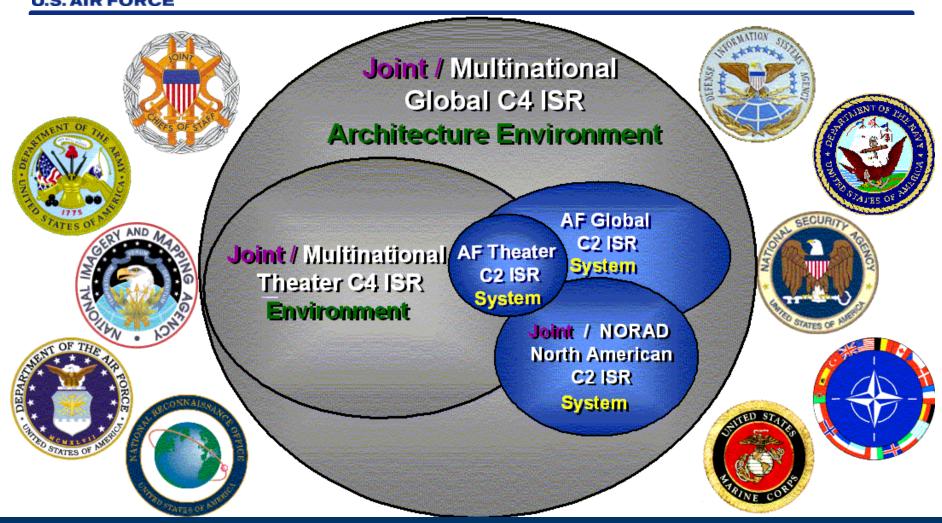


Air Force Partnering Leveraged in Conflict and Current Operations





C4ISR Ops Architecture



USAF Focus is not enough: Services must focus together Plus Joint Staff, Federal Agencies, and Coalition



Decision Superiority for Joint / Coalition Operations

